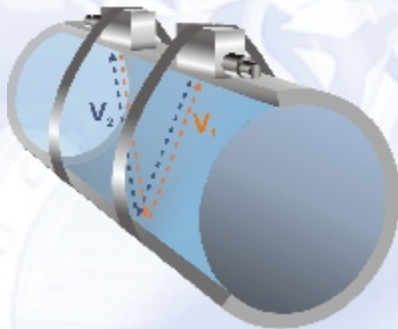


The perfect flow measurement in full pipelines – contactless!



The NivuSonic CO operates using the transit time method and is primarily suitable for clean to slightly polluted water

- Contactless and pressure independent
- High measurement stability and accuracy due to signal correlation
- Easy startup and installation procedure thanks to software-based sensor alignment and clamp-on system
- Uncomplicated integration into existing control systems through universal interfaces
- Suitable even for aggressive media

| Transmitter | |
|-----------------------|---|
| Supply power | 100 to 240 V AC, +10 % / -15 %, 47 to 63 Hz or 24 V DC ±15 %, 5 % residual ripple |
| Power consumption | max. 48 VA |
| Wall mount enclosure | <ul style="list-style-type: none"> • material: Polycarbonate • protection: IP65 • weight: approx. 3700 g |
| Operating temperature | -20 °C to +50 °C |
| Max. humidity | 80 %, non-condensing |
| Display | back-lit graphic display, 128 x 128 pixel |
| Operation | 18 keys, multilingual dialog mode (German, English, French, ...) |
| Inputs | 2 sensor pairs directly connectable |
| Outputs | 4 x 0/4 - 20 mA, 5 relays (SPDT), RJ45 |
| Data memory | compact flash card up to 128 MB |
| Data transmission | via compact flash card, Modbus TCP, integrated web server; Ethernet, Internet via Ethernet or optional via internal ISDN or GPRS modem |

| Sensors | |
|---|---|
| Measurement principle | Ultrasonic transit time |
| Flow velocity measurement | |
| Measurement range | ±20 m/s |
| Inner pipe diameter | 0.08 m to 1.4 m (DN80 to DN1400) |
| Measurement uncertainty | <ul style="list-style-type: none"> • flow velocity (v_{average}) ± 0.1 % of measurement value within the path • flow (Q): ±1-5 % of measurement value • offset velocity < ±5 mm/s |
| Number of paths | 1 or 2 measurement paths |
| Measurement frequency | 1 MHz |
| Protection | IP68 |
| Operating temperature | -30 °C to +80 °C |
| Cable length | 10 m, other cable lengths on request |
| Temperature measurement via sound velocity | |
| Measurement range | 0 °C to +80 °C |
| Measurement uncertainty | ±1 K |

Specifications subject to change. Nim CO-db-01-dt.cdr / Rev. 01 - 08.09.2010

Instrumentation For Water Industry

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